



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Douglas E. Fain Sr., et al.

Docket No.: S-82,299

Application No.09/253,986

Examiner: L. Roche

Filed: 03/04/99

Group Art Unit: 1771

Title: ARTICLE AND METHOD FOR PRODUCING EXTREMELY SMALL PORE  
INORGANIC MEMBRANES (U)

**REVOCATION OF POWER OF ATTORNEY AND SUBSTITUTION OF NEW  
POWER OF ATTORNEY**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We, as Assignee of the entire right, title, and interest in the above-identified patent application (now patent No. 6,649,255), hereby revoke the Power of Attorney to Robert M. Poteat of the Robert M. Poteat, P.C. firm and submit herewith a new Power of Attorney by appointing the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

George L. Craig	Registration No. 29,293
Joseph A. Marasco	Registration No. 32,798
James M. Spicer	Registration No. 26,096
Shelley L. Stafford	Registration No. 38,623
Kirk A. Wilson	Registration No. 45,939
Judson R. Hightower	Registration No. 26,603

All of: UT-Battelle, LLC  
P. O. Box 2008  
Oak Ridge, Tennessee 37831-6498

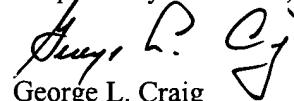
And: Robert M. Poteat Registration No. 22,189

Robert M. Poteat, P.C.  
1092 West Outer Drive  
Oak Ridge, Tennessee 37830

Please direct all correspondence to: the address associated with Customer Number 48589.

Please direct all telephone calls to the practitioner assigned to the above-identified Customer Number..

Respectfully submitted,



George L. Craig

Attorney for Applicants

Registration No. 29,293

UT-Battelle, LLC

P. O. Box 2008

Oak Ridge, Tennessee 37831-6498

Telephone 865/576-6883

Facsimile: 865/574-0381



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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Bechtel Jacobs Company, L.L.C.Application No./Patent No.: 6,649,255 Filed/Issue Date: 11/18/03Entitled: Article and Method for Producing Extremely Small Pore Inorganic Membranes(Name of Assignee) UT-Battelle, L.L.C. (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

A  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: the inventors To: Bechtel Jacobs Compan, L.L.C.  
The document was recorded in the United States Patent and Trademark Office at Reel 010620, Frame 0055, or for which a copy thereof is attached.
2. From: Bechtel Jacobs Co. LLC To: UT-Battelle, L.L.C.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

George L. Craig

Printed or Typed Name

17 Feb. 2005

Date

865 576-6883

Telephone Number

General Patent Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



MAY 13, 2000

PTAS

ROBERT M. POTEAT, P.C.  
1092 WEST OUTER DRIVE  
OAK RIDGE, TN 37830

UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*101295025A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/29/2000

REEL/FRAME: 010620/0055

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FAIN, DOUGLAS E.

DOC DATE: 03/02/1999

ASSIGNOR:

MARSHALL, BRUCE B.

DOC DATE: 03/02/1999

ASSIGNOR:

ADCOCK, KENNETH D.

DOC DATE: 03/02/1999

ASSIGNOR:

PHILLIPS, MICHAEL R.

DOC DATE: 03/02/1999

ASSIGNOR:

ROETTGER, GEORGE E.

DOC DATE: 03/02/1999

ASSIGNEE:

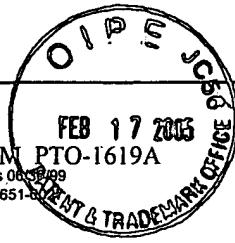
BECHTEL JACOBS COMPANY LLC  
P.O. BOX 4699  
OAK RIDGE, TENNESSEE 37831-7271

010620/0055 PAGE 2

SERIAL NUMBER: 09253986  
PATENT NUMBER:

FILING DATE: 03/04/1999  
ISSUE DATE:

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



FEB 17 2000  
FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

03-23-2000



101295025

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

2/29/00

## RECORDATION FORM COVER SHEET PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

### Submission Type

- New  
 Resubmission (Non-Recordation)  
Document ID#   
 Correction of PTO Error  
Reel #  Frame #   
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Reel #  Frame #

### Conveyance Type

- Assignment  Security Agreement  
 License  Change of Name  
 Merger  Other   
**U.S. Government**  
(For Use ONLY by U.S. Government Agencies)  
 Departmental File  Secret File

### Conveying Party(ies)

Mark if additional names of conveying parties attached      Execution Date  
Month Day Year

Name (line 1)  Eain, Douglas E.      3 02 99

Name (line 2)

### Second Party

Name (line 1)  Marshall, Bruce B.

Name (line 2)

Execution Date  
Month Day Year

3 02 99

### Receiving Party

Mark if additional names of receiving parties attached

Name (line 1)  Bechtel Jacobs Company LLC       If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)  
Name (line 2)  A Limited Liability Company of Delaware  
Address (line 1)  Post Office Box 4699  
Address (line 2)   
Address (line 3)  Oak Ridge      TN / USA      37831-7271  
City      State/Country      Zip Code

### Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name   
Address (line 1)   
Address (line 2)   
Address (line 3)   
Address (line 4)

### FOR OFFICE USE ONLY

04/03/2000 DNGUYEN 00000204 09253986

01 FO:581

40.00 OP

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Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

**Area Code and Telephone Number** 865-482-5920

Name Robert M. Poteat, P. C.

Address (line 1) 1092 West Outer Drive

Address (line 2) Oak Ridge, TN 37830

Address (line 3)

Address (line 4)

**Pages** Enter the total number of pages of the attached conveyance document including any attachments. # 1

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

09253986

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month    Day    Year   

**Patent Cooperation Treaty (PCT)**

Enter PCT application number

PCT    PCT    PCT   

only if a U.S. Application Number    PCT    PCT    PCT     
has not been assigned.

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #   

Authorization to charge additional fees:

Yes

No

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Name of Person Signing

Signature

Date



FORM PTO  
Expires 06/30/99  
OMB 0651-0027

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CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

**Enter additional Conveying Parties**

Name (line 1) Adcock, Kenneth D.

Execution Date  
Month Day Year  
3 02 99

Name (line 2)

Execution Date  
Month Day Year  
3 02 99

Name (line 1) Phillips, Michael R.

Name (line 2)

Execution Date  
Month Day Year  
3 02 99

Name (line 1) Roettger, George E.

Name (line 2)

Execution Date  
Month Day Year  
3 02 99

**Receiving Party(ies)**

Mark if additional names of receiving parties attached

**Enter additional Receiving Party(ies)**

Name (line 1) Bechtel Jacobs Company LLC

If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic representative  
is attached. (Designation  
must be a separate  
document from  
Assignment.)

Name (line 2) A Limited Liability Company of Delaware

Address (line 1)

Address (line 2)

Address (line 3) Oak Ridge

City

TN / USA

State/Country

37831-7271

Zip Code

Name (line 1)

If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment of a  
domestic representative  
is attached. (Designation must  
be a separate document from  
Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

09253986

## ASSIGNMENT

**WHEREAS**, we, Douglas E. Fain, Bruce B. Marshall, Kenneth D. Adcock, Michael R. Phillips, and George E. Roettger, have invented certain new and useful improvements in "Article and Method for Producing Extremely Small Pore Inorganic Membranes (U)" for which United States Application No. 09/253,986 (Docket No. S-82, 299) was filed on 03/04/99; and

**WHEREAS**, Bechtel Jacobs Company LLC, a limited liability company organized and existing under the laws of the State of Delaware whose address is Post Office Box 4699, Oak Ridge, Tennessee 37830 is desirous of acquiring an interest therein;

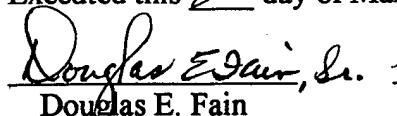
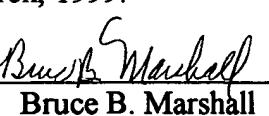
**NOW, THEREFORE**, in consideration of Ten Dollars, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we the above-noted inventors, by these presents do sell, assign, and transfer unto the said Assignee, its successors, assigns, and legal representatives, the entire right, title, and interest in and to the said invention in the United States and all foreign countries as described in the aforesaid application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention relating to Patents, Designs and Industrial models, and any other international agreements to which the United States of America adheres, and we hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the Assignee, for the sole use and behoof of the said Bechtel Jacobs Company LLC, its successors, assigns, and legal representatives.

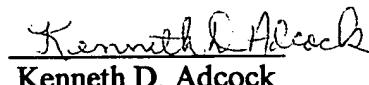
AND we hereby agree to transfer a like interest upon request of said Assignee, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, or growing out of or related to the said invention, and to execute any papers by the said Assignee, its successors, assigns, and legal representatives, deemed essential to the Assignee's full protection and title in and to the invention hereby transferred;

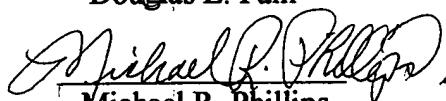
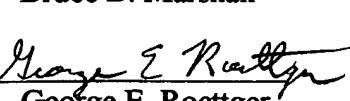
Agreeing furthermore, upon request of said Assignee and without further remuneration, to execute any papers desired by the said Assignee for the filing and granting foreign applications and the perfecting of title thereto in said Assignee;

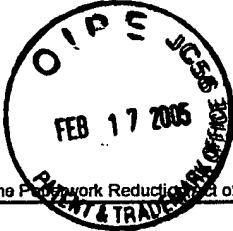
The undersigned hereby authorizes Robert M. Poteat, P.C., 1092 West Outer Drive, Oak Ridge, Tennessee 37830 to insert hereon any further identification necessary or desirable for recordation of this document.

Executed this 2<sup>nd</sup> day of March, 1999.

   
Douglas E. Fain      Bruce B. Marshall

  
Kenneth D. Adcock

   
Michael R. Phillips      George E. Roettger



PTO/SB/92 (08-03)

Approved for use through 07/31/2006. OMB 0561-0031

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

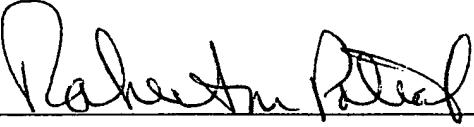
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Alexandria, VA 22313-1450

on 10/18/04  
Date

  
Signature

Robert M. Poteat

Typed or printed name of person signing Certificate

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FEB 17 2005



## RECORDATION FORM COVER SHEET

## PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)/Execution Date(s):

Bechtel Jacobs Company, L.L.C.  
A Limited Liability Company  
of Delaware

Execution Date(s) 12162002

Additional name(s) of conveying party(ies) attached?  Yes  No

### 3. Nature of conveyance:

- Assignment  Merger  
 Security Agreement  Change of Name  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

### 4. Application or patent number(s):

A. Patent Application No.(s)  
09414037 (S92,813)  
09414038 (S71,400)  
09414040 (S71,401)  
09693779 (S92,800)

This document is being filed together with a new application.

B. Patent No.(s)  
6649255 (S82,299)

Additional numbers attached?  Yes  No

### 5. Name and address to whom correspondence concerning document should be mailed:

Name: UT-Battelle, L.L.C.

Internal Address: East Tennessee Technology Park  
ATT: Robert M. Poteat (K-1037)

Street Address: P.O. Box 4699

City: Oak Ridge

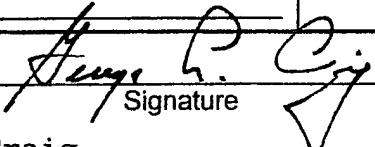
State: Tennessee Zip: 37831-7271

Phone Number: 865 574-0363

Fax Number: 865 576-3502

Email Address: \_\_\_\_\_

### 9. Signature:

  
Signature

George L. Craig

Name of Person Signing

10-15-04

Date

Total number of pages including cover sheet, attachments, and documents: 7

**ASSIGNMENT AND TRANSFER OF INTELLECTUAL PROPERTY**

THIS ASSIGNMENT AND TRANSFER OF INTELLECTUAL PROPERTY AGREEMENT (this "Agreement") is between Bechtel Jacobs Company L.L.C., a limited liability company, (hereinafter "Owner"), having a principal place of business located in Oak Ridge, TN and UT-Battelle L.L.C., a limited liability company, (hereinafter "UT-Battelle"), having a principal place of business located at 1 Bethel Valley Road, Oak Ridge, TN 37831:

WITNESSETH:

**WHEREAS**, Owner owns all right, title, and interest in and to certain Intellectual Property pertaining to the Inorganic Membrane Technology by Class Patent Waivers, W(C)-98-004 and W(I)-98-016 (now W(I)-98-016 through W(I)-98-075), granted to Owner by the Department of Energy (DOE) dated December 14, 1998, and the election of rights to certain Subject Inventions pursuant to said Class Patent Waivers , subject to the Government's retention of: (1) a non-exclusive, non-transferable, irrevocable, paid-up license to practice or have practiced the waived inventions for or on behalf of the United States, (2) an irrevocable, paid-up, exclusive license (i.e., an exclusive as against the owner) in the field-of-use of uranium enrichment with the exclusive right to grant sublicenses in the field-of-use and (3) March-in Rights (Government Rights), said Intellectual Property being identified in the Attachment;

**WHEREAS**, Owner pursuant to its Technology Transfer Program has offered for licensing certain of said Intellectual Property and has entered into an Option and License Agreement with Pall Corporation;

**WHEREAS**, said Option and License Agreements with Pall Corporation have been novated by Owner to UT-Battelle by separate agreement dated July 22, 2002;

**WHEREAS**, the Parties to this Agreement have entered into a Memorandum of Understanding on the Inorganic Membrane Technology Laboratory (IMTL) whereby the IMTL, its personnel, and research and development activities at the IMTL were transferred to UT-Battelle, effective August 15, 2002;

**WHEREAS**, as part of the Memorandum of Agreement the Parties to this Agreement agreed to assign and transfer, as one package and as directed by DOE, (1) all IMTL developed Intellectual Property, including but not limited to patents, patent applications, invention disclosures, copyrights, license agreements and license options and (2) patents, patent applications and invention disclosures developed by Owner's predecessors which have been waived to Owner by DOE pursuant to Owner's commercialization of inorganic membrane technology;

**WHEREAS**, Owner desires to assign, grant, convey and transfer the Intellectual Property identified in the Attachment to UT-Battelle, and UT-Battelle does hereby agree to accept the assignment and transfer of said Intellectual Property, in accordance with the terms and conditions of this Agreement;

**NOW, THEREFORE**, for \$10.00 and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Owner and UT-Battelle, intending to be legally bound, hereby agree as follows:

Effective as of August 1, 2002, subject to the retained Government Rights, Owner hereby assigns, transfers and confers to UT-Battelle all of Owner's right, title, and interest in and to both the tangible and the intangible property in all IMTL developed Intellectual Property, including but not limited to patents, patent applications, invention disclosures, copyrights, and of Owner's right, title, and interest in and to both the tangible and intangible property in those patents, patent applications, and invention disclosures developed by Owner's predecessors which have been waived to Owner by DOE pursuant to Owner's commercialization of inorganic membrane technology in perpetuity (or for the longest period of time otherwise permitted by law).

Owner represents and warrants that UT-Battelle shall receive, pursuant to this Agreement as of the effective date of this Agreement, ~~complete and exclusive~~ right, title, and interest in and to all tangible and intangible property rights existing in said Intellectual Property, subject only to the rights retained by the Government (Government Rights).

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective as of the date shown above.

Bechtel Jacobs Company L.L.C. (Owner)

By: Paul F. Clay

Title: President

Date: 12/16/02

UT-Battelle L.L.C. (UT-Battelle)

By: Ray Dzin

Title: Director

Date: 5-29-03

**ATTACHMENT - ASSIGNOR'S INTELLECTUAL PROPERTY**

**LISTING OF IDENTIFIED INORGANIC MEMBRANE RELATED BACKGROUND  
PATENT, PATENT APPLICATIONS AND INVENTION DISCLOSURES MADE BY  
PREDECESSOR CONTRACTORS TO OWNER - W(I)-98-016 THROUGH W(I)-98-75**

CNID No.	S Number	Serial Number	Subject	Filing Date
74	S-6707	03/387,817	Tube Forming Process	10/22/53
233	S-7363	03/671,108	Enhancer	07/10/57
292	S-9558	04/108,957	Preparation Method	05/09/61
630	S-12,765	04/105,243	Tube Finishing Machine	04/24/61
1083	S-18510	04/214,159	Treatment of Barrier	07/24/62
1180	S-20,532	04/214,166	Finishing Technique for Barrier	07/24/62
1187	S-20,548	04/214,158	Method for Improving Barrier	07/24/62
1321	S-23,161	04/214,166	Controlled Plugging of Barrier	07/26/62
1325	S-24,803	04/288,054	Production of High Density Impervious Articles	06/14/63
1387	S-24,822	04/523,810	Automatic Fabrication Device	10/19/65
1491	S-25,928	04/790,184	Method of Making a Gaseous Diffusion Membrane	10/10/68
1499	S-25,928	04/352,701	Method for the Preparation of Diffusion Barrier	03/17/64
1560	S-25,690	04/371,157	Method for Making Gaseous Diffusion Barrier	05/28/64
1601	S-27,634	04/293,235	Novel Tubular Barrier and Convert Using Same	07/02/63
1651	S-27,693	04/336,604	Porous Metal Membranes	01/08/64
1676	S-27,730	04/374,856	Improved Diffusion Barrier and Method of Making Same	06/12/64
1764	S-30,045	04/374,858	Novel Fine-pored Porous Metal Articles and Method of Preparation	06/12/64
1917	S-31,664	04/646,796	Modifying the Properties of Diffusion Barrier	06/14/67
1950	S-32,412	04/495,354	Preparation of Diffusion Barrier	01/19/67
1975	S-32,446	04/572,148	New Diffusion Barrier	08/12/66
2064	S-34,624	04/700,675	Method of Carrying out a Powder Metallurgy Process Using Tungsten and Nickel Powders	01/19/68
2174	S-34,603	04/626,657	Preparation of Diffusion Barrier	03/23/67
2362	S-36,464	04/773,698	Modifying the Properties of Diffusion Barrier	11/04/68
2554	S-38,623	N/A	Membrane	Not filed
2555	S-38,635	04/065,494	Improved Gaseous Diffusion Barrier	09/23/70
2732	S-40,340	05/144,281	Corrosion Resistant Barrier	05/17/71
2750	S-40,340	05/188,664	Method for Preparing Improved Barrier	10/13/71
2809	S-41,243	05/298,091	Barrier Process	10/04/72
2885	S-42,320	N/A	Conceptual Multiple Effect Gaseous Diffusion Stage Design	Not Filed
2903	S-42,343	05/339,665	Barrier Process	03/08/73
2923	S-46,537	05/623,846	Method for Permeability Control	10/20/75

2945	S-42,951	05/375,245	Improvement in Barrier Preparation Processes	07/05/73
2969	S-42,954	05/391,116	Preparation Process	08/28/73
2975	S-42,924	05/346,525	Improved Tube Processing Machine	03/28/73
3008	S-43,727	N/A	Full Barrier Parameter Test	Not Filed
3132	S-44,138	05/472,389	Method of Protecting Barrier	05/21/73
3268	S-45,168	05/562,087	Improvement in Gaseous Diffusion Barrier	03/26/75
3330	S-45,775	05/623,847	Improved Barrier and Method for Preparation Thereof	10/20/75
3510	S-49,026	N/A	Method for Evaluating Diffusion Converters	Not Filed
3513	S-47,845	05/792,959	Improved Barrier	02/27/77
3609	S-48,027	N/A	Improved Gaseous Diffusion Barrier	Not Filed
3626	S-49,035	N/A	Improvement in Barrier	Not Filed
3706	S-50,752	N/A	Improvement Method for Evaluating Diffusion Converters	Not Filed
3723	S-50,753	N/A	Novel Barrier Material	Not Filed
3724	S-50,754	N/A	Modified Barrier Material	Not Filed
3744 (Div.)	S-58,088	05/387,389	Process for Producing Gaseous Diffusion Barrier Tubes	06/10/82
4042	S-54,836	N/A	Method for Improving Barrier	Not Filed
4256	S-60,523	N/A	New Method for Measuring Porous Material Slope Factor	Not Filed
4314	S-59,918	N/A	Improved Barrier and Method for Preparation Thereof	Not Filed
4479	S-61,823	N/A	Method for Improving Separative Efficiency of Barrier	Not Filed
Unavailable	Unavailable	N/A	New Diffusion Barrier and Supplement	Not Filed
23K	S-62,576	N/A	High Flux Heat Pipe	04/11/85
272K	S-65,954	N/A	Porous Tubing Fabrication Technique	05/15/87
704K	S-70,455	N/A	Method for Co-Sintering Large Pore Articles onto Substrates	12/29/89
744K	S-71,401	N/A	Method for Producing Small Pored Ceramic Membranes	03/29/90
745K	S-71,400	N/A	Improved Method for Producing Small Pored Ceramic Membranes	03/29/90
1423K	S-79,395	08/668,603	Photocatalytic Membranes	05/30/96
1647K	S-82,268	N/A	Self Monitoring Inorganic Membrane Air Filters	10/28/94
1648K	S-82,269	N/A	Sterilizing Inorganic Membrane Filter	10/28/94
1678K	S-82,299	N/A	Method for Producing Extremely Small Pores in Ceramic Membranes	12/22/94
0488	S-90,076	N/A	Improved Solid State Electrolyte Based Devices and Fabrication Methods	05/14/98

LISTING OF INVENTIONS MADE IN THE PERFORMANCE OF RESEARCH IN  
THE INORGANIC MEMBRANE TECHNOLOGY LABORATORY (IMTL) – W(C)-  
98-004

<u>S No.</u>	<u>Contractor Number</u>	<u>TITLE</u>
S-92,800	BJID99-001	Article and Method for Preparing Porous Metal Filters
S-92,801	BJID99-002	Method for Producing Very Small Pores in Inorganic Membranes
S-92,802	BJID99-003	Method for Preparing Inorganic Membrane for Defect Repair
S-92,803	BJID99-004	Method for Repairing Defects in Inorganic Membranes
S-92,804	BJID99-005	Method for Repairing Defects in Inorganic Membranes
S-92,805	BJID99-006	Method for Eliminating Defects in Inorganic Membranes
S-92,806	BJID99-007	Method for Reducing Defects in High Efficiency Particular Filters
S-92,807	BJID99-008	Method for Eliminating Defects in an Inorganic Membrane
S-92,808	BJID99-009	Article and Method for Producing Porous Ceramic Filters
S-92,809	BJID99-010	Cleanable and Reusable Metal HEPA Filters for Radioactive and Hazardous Materials
S-92,810	BJID99-011	Article and Method for Producing Small Pored Inorganic Membranes for Separating Hydrogen from Other Gases
S-92,811	BJID99-012	Article and Method for Producing Small Pored Inorganic Membranes for Separating Hydrocarbons and Other Absorptive Gases from Hydrogen)
S-92,812	BJID99-013	Article and Method for Producing RO Membranes
S-92,813	BJID99-014	Article and Method for Preparing Inorganic Membranes Including Metal Membranes
S-92,814	BJID00-001	Article and Method for Preparing Titanium Oxide Membranes
S-92,815	BJID00-002	Method for Preparing Inorganic Membranes
S-92,816	BCID01-001	Process to Prepare a Photocatalytic Membrane
S-92,817	BJID01-002	Leak Repair Technique
S-92,818	BJID01-003	Nickel filter
S-92,819	BJID01-004	Iron Aluminide
S-92,820	BJID01-005	Capillary Condensation



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09/414, 038 (S-91, 400)  
09/414, 040 (S-91, 401)

100 20 27 10 064 204 253 10 100 346 6 10  
pat. No 6,649,255 (S-82, 289)

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09/414, 040 (S-71, 401)

100 20 27 100 64 204 253 100 346 611  
pat. No. 6,649,255 (S-82,299)

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IN THE UNITED STATES Patent Office

(Assignments: 09/414, 037 (S-92, 813)

09/414, 038 (S-71, 400)

09/414, 040 (S-71, 401)

09/693, 779 (S-92, 800)

Pat. Ser. No. 6,649,255 (S-82,299)

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